

ABSTRACT OF THE DISCLOSURE

Electrical connection of superconducting lines can
be achieved by using a low-melting point metal, by
5 mechanical contact of superconducting lines or by
welding. According to these methods, however, critical
current and critical magnetic field at the connection
point are low, and stable connection in a
superconducting state has been difficult. The present
10 invention solves these problems and provides a
structure and method for connecting superconducting
lines. The present invention provides high-performance,
high-stability connection of superconducting lines
through magnesium diboride (MgB_2) powder arranged
15 between superconducting lines.

SELECTED FIGURE: FIG. 2